

WHAT IS CLAIMED IS:

1. A transparent polyamide alloy, with a TG of $> 120^{\circ}\text{C}$,
produced by compounding from 70-98 % by weight of a
transparent, amorphous, rigid and/or brittle polyamide A
with a glass transition point of at least 180°C containing
not more than 25 mol % of a lactam or a ω -aminocarbonic
acid with a carbon number of 6-12, at least 35 mol % of a
cycloaliphatic diamine, and dicarbonic acids except
terephthalic acid and 2-30 % by weight of a transparent,
amorphous, impact resistant polyamide B with a glass
transition point below 90°C , containing 50-80 mol % of at
least one long-chain lactam or ω -aminocarbonic acid or
diamine/dicarbonic acid pair with more than 10 carbon
atoms, and a diamine of C_6 carbon atoms and at least 10
mole % terephthalic acid.

2. A polyamide alloy according to claim 1, characterized in
that the cycloaliphatic diamine of the polyamide A is one
selected from the group consisting of 3,3'-dimethyl-4,4'-
diamino-dicyclohexylmethane, 4,4'-diamino-dicyclo-hexyl-
2,2-propane, 4,4'-diamino-dicyclohexylmethane, 5-amino-
1,3,3-trimethyl-cyclo-hexanemethanamine, bis

(aminomethyl)-cyclohexane, bis-(aminomethylnorbornane),
3(4),8(9)bis-aminomethyl-tricyclo 5,2,1,0,^{2,6}-decane or its
mixtures.

5 3. Polyamide alloy according to claim 1, characterized in
that in the polyamide B, besides the terephthalic acid,
contain further dicarbonic acids selected from the group
consisting of isophthalic acid, 2,6-naphthaline dicarbonic
acid, tributylisophthalic acid, azeleinic acid, sabacinic
10 acid, dodecanedioic acid or a C₃₆-dicarbonic acid or their
mixtures.

15 4. Polyamide alloy according to claim 1, characterized in
that the long-chain monomers in the polyamide B is one
selected from the group consisting of Lactam 12 or ω-
aminolaurinic acid, a dodecandioic acid / dodecandiamine
pair or their mixtures.

20 5. Polyamide alloy according to claim 1, characterized in
that the polyamide B contains 4,4'
diaminedicyclohexylmethanes, 4,4' diamino-dicyclohexyl -
2,2'-propanes or their mixtures.